

**CWA COMPLIANCE EVALUATION INSPECTION REPORT
U.S. ENVIRONMENTAL PROTECTION AGENCY, REGION 5**

Purpose: Compliance Evaluation Inspection

Facility:

Heusinkveld Farms, LLP.
17526 County 5
Spring Valley, Minnesota 55975
Fillmore County
43.60994321103799, -92.28757527146949

NPDES ID Number: MNA000001

Date of Inspection: 04/28/2025

EPA Representatives:

Benjamin Atkinson, Agronomist atkinson.ben@epa.gov	312-353-8243
Cheryl Burdett, CAFO Program Manager burdett.cheryl@epa.gov	312-886-1463

State Representatives:

Peter Kuisle, Environmental Specialist Peter.Kuisle@state.mn.us	507-424-9132
Brent Riess, Environmental Specialist Brent.riess@state.mn.us	507-476-4268
Dallas Dornink, Fillmore County Feedlot Officer dmdornink@co.fillmore.mn.us	507-765-2817

Facility Representatives:

Nathan Heusinkveld, Owner mnheusinkveld@msn.com	507-272-7871
---	--------------

Report Prepared by:

Benjamin Atkinson, Agronomist

Inspector Signature: Atkinson, Benjamin Digitally signed by Atkinson, Benjamin
Date: 2025.06.27 14:21:34 -05'00'

Approver Name and Title:

Ryan J. Bahr, Section 2 Supervisor
Water Enforcement and Compliance Assurance Branch
U.S. EPA Region 5 Enforcement and Compliance Assurance Division

Approver Signature: Bahr, Ryan Digitally signed by Bahr, Ryan
Date: 2025.06.30 15:17:15 -05'00'

1. BACKGROUND

On April 28, 2025, EPA conducted an NPDES Clean Water Act (CWA) compliance inspection at Heusinkveld Farms, LLP. (the Facility) in Spring Valley, Minnesota. This inspection was performed pursuant to Section 308(a) of the Federal Water Pollution Control Act, as amended.

The Facility considers itself to be three sites. On the east side of County 5 to the north is the dairy site owned by Heusinkveld Farms LLP with a portion of the site sitting on a parcel owned by Darla Heusinkveld. On the east side of County 5 to the south is the dry cow site is currently owned by Stephen Heusinkveld but is being purchased by the Operator. On the west side of County 5 is the heifer site owned by Nathan & Misty Heusinkveld. For the purposes of this inspection, the three sites will collectively be referred to as “the Facility”. The Facility has approximately 460 dairy cows (dry or milking) and 200 heifers. The Facility is a medium animal feeding operation based on it having stabled or confined more than 200 mature dairy cows for 45 days or more in any 12-month period.

Surface runoff from the Facility generally flows into the adjacent crop fields. The Facility’s topography is hilly with steep slopes (see Attachment A). The Facility is bracketed to the north and south by National Hydrography Dataset identified unnamed intermittent tributaries of the South Branch Root River which have a confluence approximately 2,000 feet east of the Facility. These unnamed intermittent tributaries are mapped as flowing approximately 3.8 miles from their confluence east of the Facility to the perennial South Branch Root River. South Branch Root River is listed on the 303d impaired waterway list as being impaired for Murky Water. South Branch Root River flows to the Root River which flows to the Mississippi River, a Traditional Navigable Waterway.

2. SITE INSPECTION

Table 1: Site Entry and Opening Conference

Arrival Time:	9:45 AM	
Temperature:	57° F	
Precipitation:	Light rain at time of arrival.	
Presented credentials?	Yes	
Credentials presented to whom and at what time?	To the Operator upon arrival.	
Was an opening conference held? With whom?	Yes, the Operator	
If photographs or documents were taken, does the facility consider any to be Confidential Business Information (CBI)?		No
EPA vehicle parked in approved location?	Yes	
Location where EPA vehicle was parked?	Adjacent to the Office.	
Disposable boots worn?	Yes	
Standard biosecurity procedures followed?	Yes	

2.1 Records Review (The following Records Review tables reflect information provided before the walk-through of the facility, unless otherwise noted.)

Table 2: Documents

Checklist(s) Used
R5 CAFO Inspection Checklist

Table 3: Facility Description

Section of the Facility	Type of Animal	Number of Animals	Type of Confinement	Capacity
Dairy Site	Mature Dairy Cows	400	Total	1,000
	Calfs	100	Open Lots with barn access	Unspecified
Dry Cow Site	Mature Dairy Cows	60	Open Lots and Pasture	260
	Beef Cattle	7	Pasture	Unspecified
Heifer Site	Heifers	200	Total confinement in winter, Partial in summer	260

Table 4: Livestock Waste Storage

Storage Name	Storage Capacity	Type of Liner	Depth Markers Present	Last Time Waste was Removed	Amount of Waste Removed	Days of Storage
Big Pit	1 Million Gallons	Concrete	No	2 weeks prior to inspection	849,000 Gallons	Approximately 4 months
Sand Pit	150,000 Gallons	Concrete	No	1 month prior to inspection	20,000 Gallons	Included in above
Parlor Water	150,000 Gallons	Concrete	No	3 months prior to inspection	Unknown (pumped to Big Pit)	Approximately 3 Months
Top Barn Pit	15,000 Gallons	Concrete	No	1 week prior to inspection	7,500 Gallons	Approximately 1.5 Months
Records at site of storage structure design?				Yes		

Is manure stored for the short term? If yes, describe where it is stored, how it is drained and where it drains to.	No short-term storage
Are records kept of the level of manure in the storage structures?	No
Do the facility personnel inspect and keep records of all diversion devices?	No
Do the facility personnel inspect and keep records of all impoundments?	No
Do the facility personnel inspect and keep records of all the water lines?	No
Do the facility personnel perform routine visual inspections and keep records of the production area?	Facility is inspected daily, but no records kept.
Does the waste storage system have a managed outfall or discharge point? If yes, provide a description of the outfall and a description of the area receiving the discharge.	No
Has the facility had any documented discharges of livestock waste to surface water in the past year?	No
Are there safety devices installed around any manure storage ponds? (Barriers at the end of manure push off platforms, fences around pond, signage.)	Yes

Table 5: Livestock Waste Management

Describe the way manure is collected and disposed of at the facility:	
The Dairy barn is scraped to the Sand Pit which gravity flows to the Big Pit. Parlor water is stored in the Parlor Water Pit and then pumped to the Big Pit. The Calf Barns are scraped and hauled (solids) twice per year. The Dry Cow Barns, Cattle Shed, Top Barn and Bottom Barn are scraped and hauled as needed. The outdoor lot of the Top Barn is scraped to the 15,000-gallon pit on the west side of the Top Barn.	
Describe the way used bedding is collected and disposed of at the facility:	
Sand is used as bedding in the Dairy Barn. Straw and corn stocks are used as bedding for calves, heifers, and dry cows. All bedding is collected with manure.	
Are mortality records kept?	Yes
Describe the way mortalities are managed at the facility:	
A rendering company picks up mortalities as needed. There is no specific mortality pick-up site.	

What type of method is used to provide drinking water for the animals?	Tanks with floats
Describe the way spilled drinking water is collected and disposed of at the facility:	
With Manure.	
Describe the way mist cooling water is collected and disposed of at the facility:	
Collected with Manure	
Describe how chemicals are stored and how used or spilled chemicals are collected and disposed of at the facility:	
Chemicals are stored in the milk parlor and spills are collected with the parlor water.	
Describe the way water that has been used to wash/flush barns are collected and disposed of at the facility:	
No flushing.	
Describe the way feed is contained and how runoff from feed is collected and disposed of at the facility:	
Feed is stored in the Feed Bunkers, North Silage Pad, and in silage mounds. Runoff is not collected.	
If a dairy, describe how process wastewater from the plate cooler water is collected and disposed of at the facility:	
Plate cooler water is used for animal water and parlor washdown.	
If a dairy, describe how process wastewater from the cleaning of the milking parlor is collected and disposed of at the facility:	
Collected in the Parlor Water Pit and then pumped to the Big Pit.	
If a dairy, describe how process wastewater from the cleaning of the milk tanks is disposed of at the facility:	
Collected in the Parlor Water Pit and then pumped to the Big Pit.	
If a dairy, how many times per day are cows milked?	Cows are milked 3 times per day.

Table 6: Land Application and Disposal of Manure and Process Wastewater

Does the facility perform and keep records of the manure testing?	Yes, twice per year.
When was the last time a sample was taken of the manure and/or process wastewater?	Spring 2025.
Describe the process to take the manure and/or process wastewater sample.	Manure hauler collects samples after agitation.
Number of acres available for land application:	Approximately 2,500 acres.

Are land application records kept?	Yes
Who applies the manure and process wastewater to the fields?	A contract hauler applies liquid manure, the Facility applies the solid manure.
Are weather conditions at time of application kept? (24 before – 24 after)	The Facility does not keep weather records but thinks the contract hauler might.
Does the facility perform and keep records of the soil testing?	Yes, every 3 years.
Is manure transferred off-site to another party?	Yes
Are manure transfer records maintained?	Yes
Do facility personnel perform periodic inspection of land application equipment?	Yes – of solid manure application equipment.

Table 7: Receiving Surface Waters

Describe the surface flow pathways:	
Surface runoff from the Facility generally flows into the adjacent crop fields. The Facility's topography is hilly with steep slopes (see Attachment A). The Facility is bracketed to the north and south by National Hydrography Dataset identified unnamed intermittent tributaries of the South Branch Root River which have a confluence approximately 2,000 feet east of the Facility. These unnamed intermittent tributaries are mapped as flowing approximately 3.8 miles from their confluence east of the Facility to the perennial South Branch Root River. South Branch Root River is listed on the 303d impaired waterway list as being impaired for Turbidity. South Branch Root River flows to the Root River which flows to the Mississippi River, a Traditional Navigable Waterway.	
How many months out of the year is there flow in the nearest surface water pathway:	The Operator stated that the adjacent waterways flow in early spring and are typically dry the rest of the year.
Are there any storm water pathways entering the facility?	No
Are there any clean water ponds on site?	No
What is the name of the first waterway that is identified as a Traditional Navigable Water (TNW) for surface flow from the facility?	Mississippi River
Is the surface water pathway nearest to the facility considered to be ephemeral, intermittent or perennial?	Intermittent as mapped by the National Hydrography Dataset.
Has the surface water pathway nearest to the facility been assessed for water quality?	South Branch Root River is impaired for Turbidity.

Table 8: Nutrient Management Plan

NMP on site?	Yes
Date NMP Submitted:	2023
Planner Name/Company:	Fillmore County Soil and Water Conservation District
Date that the NMP was last updated:	2023

Table 9: NPDES Permit

Type of permit (General, individual)	No NPDES Permit
---	------------------------

2.2 Walkthrough of the Facility

Prior to the inspection, Ben Atkinson contacted Mr. Nathan Heusinkveld (the Operator) and notified him that the United States Environmental Protection Agency (US EPA) intended to conduct a Clean Water Act compliance inspection at the Heusinkveld Farms facility on April 28th, 2025 and asked if facility personnel would be available to assist during the inspection. The Operator stated that he would be available. Mr. Atkinson informed the Operator of EPA's biosecurity procedures and asked if any additional biosecurity procedures were needed at the facility. The Operator stated that EPA's standard procedures were sufficient.

On the date of the inspection, EPA inspectors Ben Atkinson and Cheryl Burdett (the Inspectors) along with Minnesota Pollution Control Agency Environmental Specialists Peter Kuisle and Brent Riess (MPCA), and Fillmore County Feedlot Officer Dallas Dornink (the County) arrived at the Facility at 9:39 AM. The Inspectors stopped and disinfected their vehicle's tires prior to driving onto the Facility. The Inspectors then parked, donned their disposable biosecurity boots, and approached the Operator. The Inspectors presented their credentials, confirmed that the location where they parked was acceptable, and asked if there was a space where the opening conference and interview portion of the inspection could be held. The Operator stated that their vehicle was parked in an acceptable location and led the Inspectors to the Office.

The Inspectors explained that the inspection would be comprised of an interview portion to gather information about the Facility and a walkthrough of Facility. The Inspectors explained the Facility's right to claim information as Confidential Business Information (CBI) and asked if there was anything that would be considered CBI. The Operator stated he did not think anything would be CBI. The Inspectors explained that were a discharge to be observed, that samples may be collected and that split samples could be collected and preserved by EPA for the Facility to have analyzed if the Facility requested.

The Inspectors then conducted the interview portion of the inspection. The Inspectors asked the Operator to clarify if the three adjoining sites were considered one operation. The Operator stated that he thought they were technically three operations with different legal ownership of the dairy site (owned by Heusinkveld Farms, LLP., dry cow site

(owned by Stephen Heusinkveld but in the process of being purchased), and heifer site (owned by Nathan & Misty Heusinkveld). The Inspectors explained that under the Clean Water Act, two or more animal feeding operations that are under common ownership are considered to be a single animal feeding operation for the purposes of determining the number of animals at and operation if they adjoin each other or if they use a common area or system for the disposal of wastes. The Inspectors stated they would like to conduct the inspection assuming the three sites were one operation and address the question of whether the sites were a single operation following the inspection if needed. The Operator agreed to allowing access to inspect all three portions of the Facility.

At approximately 10:30 AM, the interview portion of the inspection was completed, and the walk-through of the Facility began. The Inspectors began the walk-through at the Office and walked northeast to the southeast corner of the Machine Shed. The Inspectors then walked north between the Machine Shed Calf Barn 1 to the outdoor lot north of the Machine Shed. The Inspectors observed that the outdoor lot was partially denuded (photos 1-4). The Inspectors then walked back around the south end Calf Barn 1 and observed calf hutches between Calf Barn 1 and Calf Barn 2 (photo 5). The Inspectors walked north between Calf Barn 1 and Calf Barn 2 and observed the outdoor lot at the north end of Calf Barn 2. The Inspectors observed that the lot was denuded (photo 6).

The Inspectors then walked east and observed a white pipe protruding from the hillslope northeast of Calf Barn 2 (photos 7 and 8). The Operator identified the pipe as coming from calf milk room in Calf Barn 2. The Inspectors walked east along the north side of the Feed Bunker and observed a flow path with white colored liquid originating from the pipe from Calf Barn 2 (photo 9). The Inspectors observed that there was no liquid in the flow path approximately 130 feet from the source (photo 10). The Inspectors walked east to the northeast corner of the Feed Bunker and observed holes and erosional flow paths in the soil at the base of the northeast corner of the Feed Bunker with a dark color liquid and staining present (photos 11-13).

The Inspectors walked south and observed an access road between the Feed Bunker and the Big Pit (photo 15).

The Inspectors walked southeast to the northeast corner of the Big Pit (photos 16 and 17). The Inspectors observed an erosional flow path from the access road east of the Big Pit into the crop field east of the Big Pit (photos 18 and 19).

The Inspectors walked around the east side of the Big Pit and then west along the south side of the Big Pit (photo 20). The Inspectors observed an erosional flow path along the fence to the south (photo 21). The Inspectors walked west and observed manure solids on the top of the wall of the Big Pit and on the ground on the south side of the Big Pit (photo 22). The Inspectors observed an erosional flow path to the south (photo 23). The Inspectors continued west and observed manure solids on the top of the wall of the Sand Pit and on the ground south of the south wall of the Sand Pit (photo 24). The Inspectors

observed an erosional flow path along the south side of the Dairy Barn parallel to the Dairy barn which then turned south (photos 25 and 26).

The Inspectors walked west and observed a blue pipe protruding southeast out of the hillslope south of the Dairy Barn with an erosional flow path southeast (photos 27 - 29). The Operator stated that the pipe conveyed stormwater from the area north of the Parlor Water Pit. The Inspectors walked around the south side of the Parlor Water Pit and observed a white pipe on the west side of the Parlor Water Pit (photo 31). The Operator stated that this was an older now unused pipe that had conveyed stormwater from the area north of the Parlor Water Pit.

The Inspectors walked southwest and observed the outdoor lots north of the Dry Cow Barns. The Inspectors observed that the outdoor lots were partially denuded with erosional flow paths south to the crop field south of the outdoor lots (photos 32-36). The Inspectors also observed an erosional flow path along the south fence of the outdoor lots (photo 37).

The Inspectors walked south to the north side of the Dry Cow Barns (photos 38 and 39). The Inspectors walked southeast and observed the east side of the Dry Cow Barns and observed manure off the edge of the concrete pad south of the Dry Cow Barns (photos 41 and 42). The Inspectors then walked southwest and observed erosional flow paths from the denuded lot north of the Cattle Shed through the denuded lot south of the Dry Cow Barns to the crop field south of the outdoor lots (photos 43-46). The Inspectors also observed an erosional flow path from the area south of the Dry Cow Barns along the fence to the east (photos 47 and 48).

The Inspectors then walked east along the north side of the denuded outdoor lot north of the Cattle Shed (photos 49-52). The Inspectors then walked south along the east side of the denuded outdoor lot north of the Cattle Shed (photo 53). The Inspectors then walked north and observed the south side of the outdoor lot north of the Cattle Shed (photos 54-55). The Inspectors then walked northwest around the southwest side of the Cattle Shed and Dry Cow Barns (photos 56 and 57).

Then Inspectors then walked north along the west side of the outdoor lots north of the Dry Cow Barns and crossed County 5 to the heifer site. The inspectors walked to the southeast side of the Bottom Barn and observed the partially denuded outdoor lot north of the Bottom Barn (photos 58 and 59). The Inspectors then walked back to the southeast corner of the Bottom Barn to the concrete outdoor lot on the south side of the Bottom Barn (photo 60). The Inspectors walked west and observed the manure stacking area to which the Bottom Barn manure is scraped (photo 61). The Inspectors walked north and observed an erosional flow path beginning at the fence to the outdoor lot north of the Bottom Barn (photo 62). The Inspectors observed that there were gaps between the west wall of the manure stacking area and concrete block wall at the north end of the manure stacking area (photo 63).

The Inspectors then walked west around the south side of the hay barn to the southeast corner of the Top Barn. The Inspectors observed a recessed manure stacking area on the east end of the Top Barn (photo 64) and the outdoor lots on the south side of the Top Barn (photo 65).

The Inspectors then walked North on the east side of the Top Barn and around the silage mound north of the Top Barn. The Inspectors observed erosional flow paths from around the silage mound to the crop fields adjacent to the silage mound (photos 66-68). The Inspectors then walked to the west side of the Top Barn and observed a flow path with dark colored liquid and staining from the 15,000-gallon pit on the west side of the Top Barn to the adjacent crop field (photos 69-71). The Inspectors observed the outdoor lots on the south side the Top Barn (photo 72).

The Inspectors then walked east to the east side of County 5 and north to the southwest corner of the North Silage Pad (photo 73). The Inspectors walked north along the west side of the North Silage Pad and observed erosional flow paths along the west side of the North Silage Pad to the crop field to the north (photos 75 and 75). The Inspectors then walked north to the north end of the silage mound north of the North Silage Pad (photos 76-78). Then Inspectors then walked south to the north side of the North Silage Pad. The Inspectors observed staining at the seams of the north wall of the North Silage Pad (photos 79-80). The Inspectors then walked south on the east side of the North Silage Pad and observed erosional flow path with dark staining from east side of the North Silage Pad to the crop field to the east (photos 81-84).

Then inspectors then walked north around the west side of the outdoor lot north of Calf Barn 1 and back to the office.

2.3 Closing Conference and Post-Inspection

Table 10: Post Walk-Through

Was a closing conference held? With whom?	Yes, with the Operator.	
Were specific Areas of Concern discussed with facility personnel?	Yes	
Who were the Areas of Concern discussed with?	With the Operator	
Exit Time:	1:00 PM	
Disposable Boots Left at Facility?	Yes	
Vehicle Washed after leaving facility?	Yes	
Date and Time that vehicle was washed:	4/28/2025 2:18 PM	

Table 11: Sampling Information

Were samples taken?	<u>No</u>
----------------------------	-----------

3. LIST OF DOCUMENTS RECEIVED FROM FACILITY

None

4. AREAS OF CONCERN

EPA observed these areas of concern:

1. The outdoor lots north of Calf Barn 1 and Calf Barn 2 are denuded and lack containment.
2. The calf hutches between Calf Ban 1 and Calf Barn 2 lack containment for runoff.
3. The white pipe from Calf Barn 2 may convey process wastewater.
4. The northeast corner of the Feed Bunker may be leaking leachate.
5. The erosional flow path east of the Big Pit may convey process wastewater toward the unnamed intermittent waterway to the east.
6. The manure solids on the south side of the Big Pit and Sand Pit may be contributing pollutants to runoff flowing through erosional flow paths toward the intermittent waterway to the east.
7. The outdoor lots north of the Dry Cow Barns are denuded and have erosional flow paths that may convey pollutants toward the intermittent waterway to the east.
8. The concrete pad on the north side of the Dry Cow Barns lacks containment.
9. The outdoor lots south of the Dry Cow Barns and north of the Cattle Shed are denuded and have erosional flow paths that may convey pollutants toward the intermittent waterway to the east.
10. The outdoor lot north of the Bottom Barn is partially denuded and has erosional flow paths that may convey pollutants to the intermittent waterway to the north.
11. The manure stacking area on the west side of the Bottom Barn has gaps which may allow pollutants to flow to the erosional flow paths in the outdoor lot north of the Bottom Barn.
12. The silage mound north of the Top Barn lacks runoff containment and may contribute pollutants to the erosional runoff pathways toward the intermittent waterway to the north.
13. The 15,000-gallon manure pit on the west side of the Top Barn appears to be overflowing and may contribute pollutants to runoff in the erosional flow paths toward the intermittent waterway to the north.
14. The North Silage Pad lacks runoff containment and may be contributing pollutants to the erosional flow paths toward the intermittent waterway to north and east.
15. The silage mound north of the North Silage Pad lacks containment for leachate or runoff.

5. LIST OF ATTACHMENTS

- A) Facility Maps
- B) Photolog

Attachment A

Heusinkveld Farms, LLP.
17256 County 5
Spring Valley, Minnesota 55975
Fillmore County
43.60969546663992, -92.28762830549799



0 105 210 420 630 840 Feet

Silage Mound

Top Barn

15,000-Gallon Pit

Hay Barn

Outdoor Lot

Bottom Barn

Ex. 6 (Personal Privacy)

Silage Mound

North Silage Pad

Calf Barn 1

Machine Shed

Office

Milk Parlor

Out Door Lots

Dry Cow Barns

Cattle Shed

Ex. 6 (Personal Privacy)

White Pipe

Feed Bunker

Calf Barn 2

Dairy Barn

Parlor Water Pit

Holes in soil at base of Feed Bunker

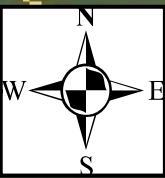
Big Pit

Sand Pit

Outdoor Lot

Hay Barn

Heusinkveld Farms, LLP.
17256 County 5
Spring Valley, Minnesota 55975
Fillmore County
43.60969546663992, -92.28762830549799



0 105 210 420 630 840 Feet

Silage Mound

15,000-Gallon Pit

Top Barn

Hay Barn

Outdoor Lot

Bottom Barn

Ex. 6 (Personal Privacy)

Silage Mound

North Silage Pad

Calf Barn 1

Machine Shed

Office

Milk Parlor

Out Door Lots

Dry Cow Barns

Outdoor Lot

Cattle Shed

Hay Barn

Ex. 6 (Personal Privacy)

Dairy Barn

Calf Barn 2

Feed Bunker

White Pipe

Holes in soil at base of Feed Bunker

Sand Pit

Big Pit

Heusinkveld Farms, LLP.
17256 County 5
Spring Valley, Minnesota 55975
Fillmore County
43.60969546663992, -92.28762830549799



0 260 520 1,040 1,560 2,080 Feet

Legend

National Hydrography Dataset

■ ■ ■ National Hydrography Dataset *Intermittent Stream/River*

Silage Mound
North Silage Pad
Calf Barn 1
Machine Shed
Office
Milk Parlor
Outdoor Lot
Top Barn
Hay Barn
15,000-Gallon Pit
Outdoor Lot
Bottom Barn
Ex. 6 (Person)
Ex. 6 (Person)
Dry Cow Barns
Outdoor Calf Shear Barn
Holes in soil at base of Feed Bunker
White Pipe
Feed Bunker
Calf Barn 2
Dairy Barn
Sand Pit
Water Pit
Out Door Lots

Attachment B

Heusinkveld Farms, LLP
EPA Inspection April 28, 2025
All photos taken by Benjamin Atkinson, Agronomist, U.S. EPA
Camera: RICOH WG-4 GPS



1: RIMG0001

Description: Looking north between Calf Barn 1 (right) and Machine Shed (left).

Location: Southeast corner of Machine Shed.

Camera Direction: North Date/Time: April 28, 2025 10:38 AM



2: RIMG0002

Description: Looking northwest across western half of outdoor lot north of the Machine Shed.

Location: Northwest corner of the Machine Shed.

Camera Direction: Northwest Date/Time: April 28, 2025 10:39 AM



3: RIMG0003

Description: Looking northeast across the outdoor lot north of the Machine Shed.

Location: Northwest corner of the Machine Shed.

Camera Direction: Northeast Date/Time: April 28, 2025 10:40 AM



4: RIMG0004

Description: Looking north at the east end of the outdoor lot north of the Machine Shed.

Location: Northeast corner of the Machine Shed.

Camera Direction: North Date/Time: April 28, 2025 10:41 AM



5: RIMG0005

Description: Looking north between Calf Barn 1 (left) and Calf Barn 2 (right).

Location: East of the south end of Calf Barn 1.

Camera Direction: North Date/Time: April 28, 2025 10:42 AM



6: RIMG0006

Description: Looking northeast across outdoor lot north of Calf Barn 2.

Location: Northeast corner of Calf Barn 1.

Camera Direction: Northeast Date/Time: April 28, 2025 10:43 AM



7: RIMG0007

Description: White PVC pipe (red arrow) identified by the Operator as coming from Calf Barn 2 where calf milk is prepared.

Location: Northeast of Calf Barn 2.

Camera Direction: Southwest Date/Time: April 28, 2025 10:45 AM



8: RIMG0008

Description: Looking north along flowpath from the white PVC pipe noted in Photo 7.

Location: Northeast of Calf Barn 2.

Camera Direction: North Date/Time: April 28, 2025 10:45 PM



9: RIMG0009

Description: Looking west uphill along the flowpath from the pipe noted in photo 7.

Location: Northeast corner of the Feed Bunker.

Camera Direction: West Date/Time: April 28, 2025 10:46 AM



10: RIMG0010

Description: Looking east downhill from the northeast corner of the Feed Bunker.

Location: Northeast corner of the Feed Bunker.

Camera Direction: East Date/Time: April 28, 2025 10:46 AM



11: RIMG0011

Description: Looking west along the north side exterior of the Feed Bunker. Note erosional flowpath with dark colored liquid originating at the northeast corner of the Feed Bunker (red arrows).

Location: Northeast corner of the Feed Bunker.

Camera Direction: West Date/Time: April 28, 2025 10:48 AM



12: RIMG0012

Description: Looking south along the east exterior wall of the Feed Bunker.

Location: Northeast corner of the Feed Bunker.

Camera Direction: South Date/Time: April 28, 2025 10:48 AM



13: RIMG0013

Description: Close up of the holes at the base of the northeast corner of the Feed Bunker with dark color liquid.

Location: Northeast corner of the Feed Bunker.

Camera Direction: Down Date/Time: April 28, 2025 10:48 AM



14: RIMG0014

Description: Looking east downhill from the area northeast of the Feed Bunker.

Location: Northeast of Feed Bunker.

Camera Direction: East Date/Time: April 28, 2025 10:49 AM



15: RIMG0015

Description: Looking southwest toward the east end of the Dairy Barn. The Feed Bunker is to the right and the Big Pit is to the left.

Location: East of the Feed Bunker.

Camera Direction: Southwest Date/Time: April 28, 2025 10:50 AM



16: RIMG0016

Description: Looking west along the north end of the Big Pit

Location: Northeast corner of the Big Pit.

Camera Direction: West Date/Time: April 28, 2025 10:51 AM



17: RIMG0017

Description: Looking South along the east side of the Big Pit.

Location: Northeast corner of the Big Pit.

Camera Direction: South Date/Time: April 28, 2025 10:52 AM



18: RIMG0018

Description: Erosional flowpath through crop field on the east side of the Big Pit.

Location: East of the Big Pit.

Camera Direction: Southeast Date/Time: April 28, 2025 10:53 AM



19: RIMG0019

Description: Looking north along erosional flowpath on the east side of the Big Pit.

Location: East of the Big Pit.

Camera Direction: North Date/Time: April 28, 2025 10:53 AM



20: RIMG0020

Description: Looking west along the south side of the Big Pit.

Location: Southeast corner of the Big Pit.

Camera Direction: West Date/Time: April 28, 2025 10:55 AM



21: RIMG0021

Description: Erosional flow channel to the south along the fence line on the south side of the Big Pit.

Location: South side of the Big Pit.

Camera Direction: South Date/Time: April 28, 2025 10:57 AM



22: RIMG0022

Description: Manure solids pushed over the top of the south wall of the Big Pit.

Location: Southwest corner of the Big Pit.

Camera Direction: East Date/Time: April 28, 2025 10:58 AM



23: RIMG0023

Description: Erosional flowpath to the south on the south side of the Sand Pit.

Location: South of the Sand Pit.

Camera Direction: South Date/Time: April 28, 2025 10:58 AM



24: RIMG0024

Description: Manure solids pushed out of the southwest corner of the Sand Pit.

Location: Southwest Corner of the Sand Pit.

Camera Direction: East Date/Time: April 28, 2025 10:59 AM



25: RIMG0025

Description: Erosional flowpath on the south side of the Dairy Barn.

Location: Southeast corner of the Dairy Barn.

Camera Direction: West Date/Time: April 28, 2025 11:02 AM



26: RIMG0026

Description: Continuation of the erosional flowpath from Photo 25 to south.

Location: Southeast corner of the Dairy Barn.

Camera Direction: South Date/Time: April 28, 2025 11:02 AM



27: RIMG0027

Description: Blue pipe identified by the Operator as stormwater from the north side of the Parlor Wash Water Pit.

Location: Southeast of the Parlor Wash Water Pit.

Camera Direction: Northwest Date/Time: April 28, 2025 11:03 AM



28: RIMG0028

Description: Dairy Barn to the right. Parlor Wash Water Pit to the left.

Location: East of the Parlor Wash Water Pit.

Camera Direction: West Date/Time: April 28, 2025 11:04 AM



29: RIMG0029

Description: Erosional flowpath to the south. Outlet of the blue stormwater pipe seen in photo 28 (red arrow).

Location: South of the Parlor Wash Water Pit.

Camera Direction: South Date/Time: April 28, 2025 11:04 AM



30: RIMG0030

Description: Looking west across the north part of the Parlor Wash Water Pit.

Location: Northeast side of the Parlor Wash Water Pit.

Camera Direction: West Date/Time: April 28, 2025 11:05 AM



31: RIMG0031

Description: West side of the Parlor Wash Water Pit (right). The White pipe was identified by the Operator as an older pipe that had been used to convey stormwater from the north side of the Parlor Wash Water Pit.

Location: West side of the Parlor Wash Water Pit.

Camera Direction: Northeast

Date/Time: April 28, 2025 11:06 AM



32: RIMG0032

Description: Looking south across outdoor lots toward the Dry Cow Barns. Note denuded areas and erosional features.

Location: Outdoor lot south of the Milk Parlor.

Camera Direction: South

Date/Time: April 28, 2025 11:08 AM



33: RIMG0033

Description: Erosional flowpaths converging into an erosional flowpath to the east.

Location: Outdoor lots between the Dry Cow Barns and Milk Parlor.

Camera Direction: South Date/Time: April 28, 2025 11:09 AM



34: RIMG0034

Description: Erosional flowpath to the east through the outdoor lots between the Dry Cow Barns and Milk Parlor.

Location: Outdoor lots between the Dry Cow Barns and Milk Parlor.

Camera Direction: East Date/Time: April 28, 2025 11:09 AM



35: RIMG0035

Description: Erosional flowpath from the outdoor lots into the crop field east of the outdoor lots.

Location: East side of the outdoor lots between Dairy Barn and Dry Cow Barns.

Camera Direction: Southeast

Date/Time: April 28, 2025 11:10 AM



36: RIMG0036

Description: Erosional flowpath into the field east of the outdoor lots between the Dairy Barn and the Dry Cow Barns.

Location: East side of the outdoor lots between Dairy Barn and Dry Cow Barns.

Camera Direction: East

Date/Time: April 28, 2025 11:10 AM



37: RIMG0037

Description: Erosional flowpath along the east edge of the outdoor lots between the Dairy Barn and the Dry Cow Barns.

Location: East side of the outdoor lots between the Dairy Barn and the Dry Cow Barns.

Camera Direction: South Date/Time: April 28, 2025 11:10 AM



38: RIMG0038

Description: Looking west across the north side of the Dry Cow Barns.

Location: Northeast corner fo the Dry Cow Barns.

Camera Direction: West Date/Time: April 28, 2025 11:11 AM



39: RIMG0039

Description: Looking east along the north side of the Dry Cown Barns.

Location: North side of the Dry Cow Barns.

Camera Direction: East Date/Time: April 28, 2025 11:11 AM



40: RIMG0040

Description: Looking north along the fence between the outdoor lots north of the Dry Cow Barns.

Location: North side of the Dry Cow Barns.

Camera Direction: North Date/Time: April 28, 2025 11:12 AM



41: RIMG0041

Description: Looking south along the east side of the Dry Cow Barns. Note the manure over the edge of the concrete pad of the outdoor lot on the south side of the Dry Cow Barns (red arrow).

Location: Northeast corner of the Dry Cow Barns.

Camera Direction: South Date/Time: April 28, 2025 11:12 AM



42: RIMG0042

Description: Looking west across outdoor concrete lots on the south side of the Dry Cow Barns.

Location: Southeast of the Dry Cow Barns.

Camera Direction: West Date/Time: April 28, 2025 11:13 AM



43: RIMG0043

Description: Looking southwest across outdoor lot on the south side of the Dry Cow Barns. Note erosional flowpath (red arrows).

Location: Outdoor lot southeast of the Dry Cow Barns.

Camera Direction: Southwest Date/Time: April 28, 2025 11:13 AM



44: RIMG0044

Description: Looking northeast along erosional flowpath through the outdoor lot southeast of the Dry Cow Barns into the crop field east of the outdoor lot.

Location: Outdoor lot southeast of the Dry Cow Barns.

Camera Direction: Northeast Date/Time: April 28, 2025 11:14 AM



45: RIMG0045

Description: Erosional flowpath (red arrow) through the outdoor lot south of the Dry Cow Barns.

Location: South of the Dry Cow Barns and north of the Cattle Shed.

Camera Direction: South

Date/Time: April 28, 2025 11:15AM



46: RIMG0046

Description: Continuation of the erosional flowpath observed in Photo 45 northeast to the erosional flowpath observed in Photo 43 and Photo 44.

Location: Outdoor lot south of the Dry Cow Barns and north of the Cattle Shed.

Camera Direction: Northeast Date/Time: April 28, 2025 11:15 AM



47: RIMG0047

Description: Erosional flowpath along the fence row of the outdoor lot south of the Dry Cow Barns and north of the Cattle Shed.

Location: Northwest corner of the outdoor lot south of the Dry Cow Barns and north of the Cattle Shed.

Camera Direction: Northwest Date/Time: April 28, 2025 11:16 AM



48: RIMG0048

Description: Continuation of the erosional flowpath along the fence row of the outdoor lot south of the Dry Cow Barns and north of the Cattle Shed.

Location: Northwest corner of the outdoor lot south of the Dry Cow Barns and north of the Cattle Shed.

Camera Direction: East Date/Time: April 28, 2025 11:16 AM



49: RIMG0049

Description: Looking east along the north side of the outdoor lot north of the Cattle Shed.

Location: Southeast corner of the outdoor lot south of the Dry Cow Barns and north of the Cattle Shed.

Camera Direction: East Date/Time: April 28, 2025 11:19 AM



50: RIMG0050

Description: Looking south along the east side of the outdoor lot north of the Cattle Shed.

Location: Northeast corner of the outdoor lot north of the Cattle Shed.

Camera Direction: South Date/Time: April 28, 2025 11:24 AM



51: RIMG0051

Description: Looking south along the east side of the outdoor lot north of the Cattle Shed. (Duplicate of photo 50.)

Location: Northeast corner of the outdoor lot north of the Cattle Shed.

Camera Direction: South Date/Time: April 28, 2025 11:24 AM



52: RIMG0052

Description: Looking west along the north side of the outdoor lot north of the Cattle Shed.

Location: Northeast corner of the outdoor lot north of the Cattle Shed.

Camera Direction: South Date/Time: April 28, 2025 11:24 AM



53: RIMG0053

Description: Looking north along the east side of the outdoor lot north of the Cattle Shed.

Location: Southeast corner of the outdoor lot north of the Cattle Shed.

Camera Direction: North Date/Time: April 28, 2025 11:26 AM



54: RIMG0054

Description: Looking northwest along the concrete feeding pad on the southeast side of the outdoor lot north of the Cattle Shed.

Location: Southeast side of the outdoor lot north of the Cattle Shed.

Camera Direction: Northwest Date/Time: April 28, 2025 11:30 AM



55: RIMG0055

Description: Looking north between the Cattle Shed (left) and the Hay Barn (right).

Location: Southeast of the Cattle Shed.

Camera Direction: North Date/Time: April 28, 2025 11:32 AM



56: RIMG0056

Description: Looking east across the outdoor lot north of the Cattle Shed.

Location: West of the northwest corner of the outdoor lot north of the Cattle Shed.

Camera Direction: East Date/Time: April 28, 2025 11:34 AM



57: RIMG0057

Description: Looking north toward the Dry Cow Barns.

Location: South of the Dry Cow Barns.

Camera Direction: North Date/Time: April 28, 2025 11:34 AM



58: RIMG0058

Description: Looking northeast along the fence of the outdoor lot north of the Bottom Barn.

Location: Northeast corner of the Bottom Barn.

Camera Direction: Northeast Date/Time: April 28, 2025 11:39 AM



59: RIMG0059

Description: Looking west across the north side of the Bottom Barn.

Location: Northeast corner of the Bottom Barn.

Camera Direction: West Date/Time: April 28, 2025 11:39 AM



60: RIMG0060

Description: Looking west across the outdoor lots on the south side of the Bottom Barn.

Location: Southeast corner of the outdoor lots on the south side of the Bottom Barn.

Camera Direction: West Date/Time: April 28, 2025 11:40 AM



61: RIMG0061

Description: Looking north along the west side of the Bottom Barn. Note concrete manure stacking area (red arrow).

Location: Northwest corner of Bottom Barn.

Camera Direction: North Date/Time: April 28, 2025 11:41 AM



62: RIMG0062

Description: Looking north along erosional flowpath in the outdoor lot north of the Bottom Barn.

Location: Northwest of the northwest corner of the Bottom Barn.

Camera Direction: North Date/Time: April 28, 2025 11:42 AM



63: RIMG0063

Description: Looking south along the west side of the Bottom Barn at the concrete manure stacking pad. Note gaps between the concrete barrier on the north end of the manure stacking pad and concrete wall on the west side (red arrow).

Location: Northwest of the northwest corner of the Bottom Barn.

Camera Direction: South Date/Time: April 28, 2025 11:42 AM



64: RIMG0064

Description: Looking north at the east side of the Top Barn. Note the recessed manure stacking area on the east side of the Top Barn (red arrow).

Location: Southeast of the Top Barn.

Camera Direction: North Date/Time: April 28, 2025 11:44 AM



65: RIMG0065

Description: Looking northwest across the south side of the Top Barn.

Location: Southeast of the Top Barn.

Camera Direction: Northwest Date/Time: April 28, 2025 11:44 AM



66: RIMG0066

Description: Erosional flowpaths into the adjacent crop field from silage mound north of the Top Barn.

Location: North side of the silage mound north of the Top Barn.

Camera Direction: East Date/Time: April 28, 2025 11:48 AM



67: RIMG0067

Description: Looking north from the north side of the silage mound north of the Top Barn. Note erosional flowpaths (red arrows).

Location: North of the silage mound north the Top Barn.

Camera Direction: North Date/Time: April 28, 2025 11:48 AM



68: RIMG0068

Description: Looking north along the west side of the silage mound north of the Top Barn.

Location: Southwest side of the silage mound north of the Top Barn.

Camera Direction: North Date/Time: April 28, 2025 11:49 AM



69: RIMG0069

Description: Flowpath toward adjacent crop field with dark colored liquid from the manure storage pit on the west side of the Top Barn.

Location: West side of the Top Barn.

Camera Direction: Date/Time: April 28, 2025 11:51 AM



70: RIMG0070

Description: Flowpath with dark colored liquid from the manure storage pit on the west side of the Top Barn toward the adjacent crop field.

Location: West side of the Top Barn.

Camera Direction: Southeast Date/Time: April 28, 2025 11:51 AM



71: RIMG0071

Description: Looking north along the west side of the manure storage pit on the west side the Top Barn. Note flowpath with dark colored liquid (red arrow).

Location: Southwest corner of the manure pit on the west side of the Top Barn.

Camera Direction: North Date/Time: April 28, 2025 11:52 AM



72: RIMG0072

Description: Looking east along the north side of the outdoor lots on the south side of the Top Barn.

Location: Southwest corner of the manure pit on the west side of the Top Barn.

Camera Direction: East Date/Time: April 28, 2025 11:52 AM



73: RIMG0073

Description: Looking northeast at the North Silage Pad.

Location: Southwest corner of the North Silage Pad.

Camera Direction: Northeast Date/Time: April 28, 2025 11:58 AM



74: RIMG0074

Description: Looking south along the west side of the North Silage Pad.

Location: West side of the North Silage Pad.

Camera Direction: South Date/Time: April 28, 2025 12:00 PM



75: RIMG0075

Description: Looking north along County Road 5 from the northwest corner of the North Silage Pad. Note silage mound north of the North Silage Pad.

Location: Northwest corner of the North Silage Pad.

Camera Direction: North Date/Time: April 28, 2025 12:00 PM



76: RIMG0076

Description: Looking south along the east side of the silage mound north of the North Silage Pad.

Location: Northeast corner of the silage mound north of the North Silage Pad.

Camera Direction: South Date/Time: April 28, 2025 12:02 PM



77: RIMG0077

Description: Looking southeast at the south side of the North Silage Pad.

Location: North of the North Silage Pad.

Camera Direction: Southeast Date/Time: April 28, 2025 12:02 PM



78: RIMG0078

Description: Looking north into the crop field north of the silage mound north of the North Silage Pad.

Location: Northeast of the silage mound north of the North Silage Pad.

Camera Direction: North Date/Time: April 28, 2025 12:02 PM



79: RIMG0079

Description: Looking east across the north side of the North Silage Pad. Note dark staining at seams of the concrete wall (red arrows).

Location: Northwest corner of the North Silage Pad.

Camera Direction: East Date/Time: April 28, 2025 12:04 PM



80: RIMG0080

Description: Looking west from the northwest corner of the North Silage Pad.

Location: Northwest corner of the North Silage Pad.

Camera Direction: West Date/Time: April 28, 2025 12:04 PM



81: RIMG0081

Description: Looking north along the east side of the North Silage Pad. Note the silage extending beyond the edge of the pad (red arrows).

Location: Northeast corner of the North Silage Pad.

Camera Direction: South Date/Time: April 28, 2025 12:05 PM



82: RIMG0082

Description: Looking north from the northeast corner of the North Silage Pad.

Location: Northeast corner of the North Silage Pad.

Camera Direction: North Date/Time: April 28, 2025 12:05 PM



83: RIMG0083

Description: Looking west at the east side of the North Silage Pad. Note erosional flowpaths and dark staining (red arrows).

Location: East side of the North Silage Pad.

Camera Direction: West Date/Time: April 28, 2025 12:07 PM



84: RIMG0084

Description: Looking east from the east side of the North Silage Pad. Note erosional flowpath into the adjacent crop field (red arrow).

Location: East side of the North Silage Pad.

Camera Direction: East Date/Time: April 28, 2025 12:07 PM